This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A process of isolating an extract from a *Euphorbae*iae-*Euphorbia* obesa plant, comprising:

No

- preparing a sample of said plant comprising removal of the latex material; dissolving said sample with a first solvent to form a solution; separating said solution into a liquid and a pulp fraction; and purifying said pulp fraction; to produce an extract which wherein said extract induces apoptosis and inhibits growth of a cancerous cell.
- 2. (original) The process of claim 1 wherein said sample is derived from the bulb portion of the plant.
- 3. (original) The process of claim 1 wherein said plant weighs less than 100 g.

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- 4. (original) The process of claim 1 wherein said first solvent comprises methanol and chloroform.
- 5. (original) The process of claim 1 wherein said process further comprises exchanging said first solvent of said pulp fraction with a second solvent.
- 6. (original) The process of claim 5 wherein said step of solvent exchange comprises evaporating said pulp fraction into a concentrate and dissolving said concentrate into a second solvent.
- 7. (original) The process of claim 5 wherein said second solvent is selected from the group consisting of DMSO, methanol and a combination of hexane and chloroform.

- 8. (original) The process of claim 1 wherein said purifying step comprises eluting said pulp fraction through a silica gel column with 90% chlorine and 10% methanol.
- 9. (original) The process of claim 1 wherein said purifying step comprises eluting said pulp fraction through a silica gel column with 80% hexane and 20% ethyl acetate.
- 10. (original) The process of claim 1 wherein said purifying step comprises eluting said pulp fraction through a silica gel column with 70% hexane and 30% ethyl acetate
- 11. (original) The process of claim 1 wherein said purifying step further comprises sequentially eluting said pulp fraction with DEAE-Sephacel in chlorine with 70% chlorine and 30% methanol.
- 12. (original) The process of claim 1 wherein said purifying step further comprises resolving said pulp fraction by reverse phase HPLC with 95% methanol and 5% water.
- 13. (original) The process of claim 1 further comprising detecting the bioactivity of said pulp fraction by incubating said fraction with an amount of LnCaP prostate cancer cells and determining apoptosis in 50% or greater of said cells.
- 14. (original) The process of claim 1 wherein said cancerous cell is a mammalian cell.
- 15. (original) The process of claim 14 wherein said cancerous cell is a human cell.
- 16. (original) The process of claim 1 wherein said cancerous cell is a melanoma cell.
- 17. (original) The process of claim 16 wherein said melanoma cell is selected from the group consisting of a Hs294T, A375P, A375M, M-21, AAB-1, AAB-2 and B-16 cell.



- 18. (original) The process of claim 16 wherein said melanoma cell is a B-16 cell.
- 19. (original) The process of claim 1 wherein said cancerous cell is a non-small cell lung cancer cell.
- 20. (original) The process of claim 19 wherein said non-small cell lung cancer cell is selected from the group consisting of a H322 and H522 cell.
- 21. (original) The process of claim 1 wherein said cancerous cell is a prostate cancer cell.
- 22. (original) The process of claim 21 wherein said prostate cancer cell is selected from the group consisting of a LnCaP and PC-3 cell.
- 23. (original) The process of claim 21 wherein said prostate cancer cell is a LnCaP cell.
- 25
- 24. (original) The process of claim 1 wherein said cancerous cell is a breast carcinoma cell.
- 25. (original) The process of claim 24 wherein said breast carcinoma cell is selected from the group consisting of a MCF-7, MCF-7/TNFR and SKBr-3 cell.
- 26. (original) The process of claim 1 wherein said cancerous cell is an ovarian cancer cell.
- 27. (original) The process of claim 26 wherein said ovarian cancer cell is a Hey cell.
- 28. (original) The process of claim 1 wherein said cancerous cell is a lymphoma cell.

- 29. (original) The process of claim 28 wherein said lymphoma cell is selected from the group consisting of a Jurkat and U937 cell.
- 30. (original) The process of claim 1 wherein said cancerous cell is a leukemia cell.
- 31. (original) The process of claim 30 wherein said leukemia cell is selected from the group consisting of a K562, MOLT-4 and THP-9 cell.
- 32. (currently amended) A method for inducing apoptosis and growth inhibition of a cancerous cell comprising

isolating an extract from of an *Euphorbac*iae-*Euphorbia* obesa according to the steps of claim 1; and

contacting said cancerous cell with effective amount of said extract.

- 33. (original) The method of claim 32 wherein said extract is derived from the bulb portion of the plant.
- 34. (original) The method of claim 32 wherein said extract comprises a single compound.
- 35. (original) The method of claim 32 wherein said bioactive extract comprises a plurality of compounds.
- 36. (original) The method of claim 32 wherein said cancerous cell is contacted by said extract *in vitro*.
- 37. (original) The method of claim 32 wherein said cancerous cell is contacted by said extract *in vivo*.



- 38. (original) The method of claim 37 wherein said effective amount is administered directly to a tumor site.
- 39. (original) The method of claim 38 wherein said effective amount is further administered intra-peritonially.
- 40. (original) The method of claim 32 wherein said efffective amount is at least 0.5 mg.
- 41. (currently amended) The <u>method process</u> of claim 33 wherein said cancerous cell is a mammalian cell.
- 42. (currently amended) The <u>method process</u> of claim 41 wherein said cancerous cell is a human cell.
- 43. (currently amended) The <u>method process</u>-of claim 33 wherein said cancerous cell is a melanoma cell.
- 44. (currently amended) The <u>method process</u>-of claim 43 wherein said melanoma cell is selected from the group consisting of a Hs294T, A375P, A375M, M-21, AAB-1, AAB-2 and B-16 cell.
- 45. (currently amended) The <u>method process</u> of claim 43 wherein said melanoma cell is a B-16 cell.
- 46. (currently amended) The <u>method_process-of claim 33</u> wherein said cancerous cell is a non-small cell lung cancer cell.

- 47. (currently amended) The <u>method process</u> of claim 46 wherein said non-small cell lung cancer cell is selected from the group consisting of a H322 and H522 cell.
- 48. (currently amended) The <u>method process</u>-of claim 33 wherein said cancerous cell is a prostate cancer cell.
- 49. (currently amended) The <u>method process</u>-of claim 48 wherein said prostate cancer cell is selected from the group consisting of a LnCaP and PC-3 cell.
- 50. (currently amended) The <u>method process</u>-of claim 48 wherein said prostate cancer cell is a LnCaP cell.
- 51. (currently amended) The <u>method process</u> of claim 33 wherein said cancerous cell is a breast carcinoma cell.
- 52. (currently amended) The <u>method process</u>-of claim 51 wherein said breast carcinoma cell is selected from the group consisting of a MCF-7, MCF-7/TNFR and SKBr-3 cell.
- 53. (currently amended) The <u>method process</u> of claim 33 wherein said cancerous cell is an ovarian cancer cell.
- 54. (currently amended) The <u>method process</u> of claim 53 wherein said ovarian cancer cell is a Hey cell.
- 55. (currently amended) The <u>method process</u>-of claim 33 wherein said cancerous cell is a lymphoma cell.



- 56. (currently amended) The <u>method process</u> of claim 55 wherein said lymphoma cell is selected from a group consisting of a Jurkat and U937 cell.
- 57. (currently amended) The <u>method process</u>-of claim 33 wherein said cancerous cell is a leukemia cell.
- 58. (currently amended) The <u>method process</u>-of claim 57 wherein said leukemia cell is selected from a group consisting of a K562, MOLT-4 and THP-9 cell.